



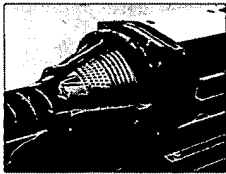
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- Pulping
- Screening and fractionation
- Washing and thickening
- Flotation
- Dispersion and refining
- Bleaching
- Chemical handling
- Water management

Dispersion and refining Heating alternatives Refining



Dispersion and refining

Modern dispersion treatment aims at improving the end-product quality, appearance and printability through the disintegration of ink and other contaminants. The increase in pulp strength and the reconditioning of old, recycled fibers can upgrade pulp for more demanding applications.

The advanced OptiFiber dispersion line concept is applicable for all recycled fibers. The heart of the process is the OptiFiber Disperser equipped with large conical fillings. For thickening and dewatering, Metso Paper can offer alternative solutions to meet the demands of the process solution.

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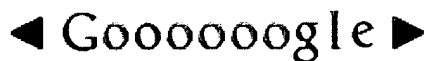
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OptiFiner™ Dispersion for Recycled Fibers

Modern dispersion treatment offers several benefits for production of paper and board based on recycled fiber. Although the main focus is still on the improvement of the end-product quality, appearance and printability through the dispersion of ink and other contaminants, there are additional benefits. The increase in pulp strength and reconditioning of old, recycled fibers can upgrade pulp for more demanding applications than previously.

Efficient dispersion improves paper and board machine runnability, due to a stronger web resulting from increased fiber bonding, improved

fiber formation for homogeneous pulp and a clean, sticky-free machine. The high temperature in dispersion also reduces bacteria content in the pulp, resulting in improved end-product hygiene and less microorganism problems in mill water circulation.

Accordingly, modern dispersion processes ensure the desired high level of cleanliness and improve strength and optimal uniformity of all end-product grades.

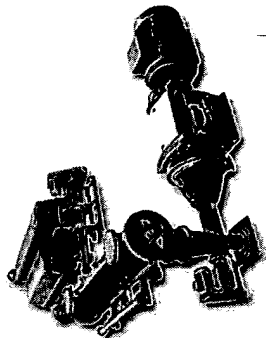
Tailored pulp heating with the Hi-Heater or the CT-Heater ensures uniform and rapid heating of pulp for different demands. The CT-Heater is designed to ensure smooth pulp flow to the heater and prevents pressure and steam losses.

The key elements of OptiFiner Dispersion

Metro Paper offers an advanced dispersion line concept applicable for all recycled fiber applications. The line includes innovative developments as well as the application of proven technologies. Metro's expertise within recycling processes provides the foundation for the development of the process and key equipment combinations.

The heart of the dispersion process is the OptiFiner Disperser. The processing of pulp and dispersion of contaminants is performed in the unique conical disperser based on the technology applied in the proven Metro Paper's homogenizing conical refiner. The dispersion system is a highly efficient, low-pressure process, which ensures a very precise, pressurized operation offers advantages to ink and sticky dispersion in certain grades.

Tailored pulp heating with the Hi-Heater or the CT-Heater ensures uniform and rapid heating of pulp for different demands. The CT-Heater is designed to ensure smooth pulp flow to the heater and prevents pressure and steam losses.



Design features and advantages of the conical OptiFiner Disperser

- Atmospheric and pressurized operation
- Low- and high-concentrate off-line designs
- Conical fillings in accordance with application
- Equipped for bleaching
- Reliable and proven machine design

Conical form provides for large processing area and extended treatment time

- Large conical area means a high number of teeth for processing, resulting in a higher number of impacts for each pulp contaminant, ensuring high dispersion efficiency

Conical form pushes fibers apart, the rotor filling resulting in intensive contact between the fibers

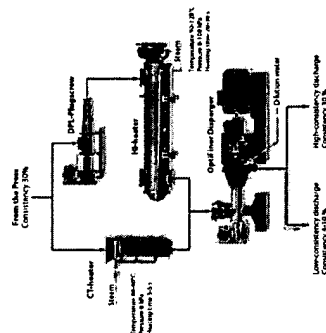
The friction between fibers causes the main part of the fiber surface layer to be removed. The fibers are then free to bond with each other, resulting in a stronger web. The high temperature in the conical area also reduces bacteria content in the pulp, resulting in improved end-product hygiene and less microorganism problems in mill water circulation.

Conical form and large processing area provide a large processing area and extended treatment time

The conical form and large processing area provide a large processing area and extended treatment time

Heating concepts

Metro Paper offers optimized heating concepts for each raw material and application containing different amounts of contaminants, particularly stickies.



Key features

- Integrated buffer
- Special shaft design
- High rotation speed
- Atmospheric and pressurized operation

CT-Heater - Vertical heating for less demanding contaminants

CT-Heater is designed for light but efficient heating of pulp. CT-Heater provides low investment cost along with compact size and low operating cost.

Key features

- Compact design
- Steamjet buffer
- No moving parts, no wear parts

Disperser fillings

The unique OptiFiner Disperser fillings can be optimized for every application and provide a large area for the effective dispersion treatment.



OptiFiner Disperser fillings can be optimized for every application and provide a large area for the effective dispersion treatment.

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Benefits to be gained with OptiFiner Dispersion solutions

- High dispersion efficiency for all types of ink
- Excellent treatment of hotmelts, stickies and other contaminants
- Significant improvement of pulp strength and fiber properties
- Variability and efficient mixing for optimal bleaching
- Wide range of treatment intensities, power inputs and temperatures
 - Heating alternatives
 - Filling pattern options
 - Atmospheric/ pressurized operation
- Flexible inlet and outlet designs facilitate easy process link-up for each application



*Metso Paper Technology Center, Anjalankoski, Finland
offers OptiFiner dispersion for customer trials.*

Technical Data

OptiFiner Disperger	HI-Heater	CT-Heater	DPL-Plugscrew
OFD-50	HI-0523	CT-309	DPL-210
OFD-100	HI-1050	CT-815	DPL-420
OFD-150	HI-1075	CT-1018	DPL-525
OFD-250	HI-1275	CT-1220	DPL-630

The contaminant dispersion with compatible properties for the fiber processing and bleaching of ONP, OMG, OCC, MOW and mix furnishes.

- Capacity rate 10 – 1000 tpd
- Rated power / Disperger 100 – 3500 kW
- Temperature range 80 – 120°C
- Pressure 0 – 100 kPa
- Discharge consistency 4 – 10 %/30 %

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